

GARAGE DOOR QUESTIONS:

GA1: (Q7:) Should Garage Doors be tested for the small missile test if a 3/16 inch rupture is evident due to the large missile impact test?

A: If a rupture of 3/16 inch occurs, the specimen failed the large missile test because rupture of dimensions greater than 1/16" by 5" constitutes a failure per Ordinance 93-141.

GA2: (Q8:) A garage door has vents that have openings larger than 3/16". Does it have to be tested for small missile impact?

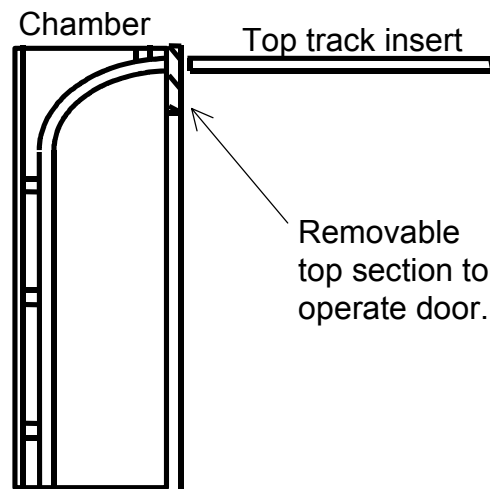
A: No.

GA3: (Q9:) Do garage doors have to be cycled in both positive and negative directions?

A: Yes.

GA4: (Q40:) Do chambers for garage doors have to hold the entire depth of the top tracks in order for the garage door to slide on after testing?

A: The chamber should have sufficient depth to contain the curve portion of the track. A removable opening can be used at the top rear of the chamber where the top tracks can be installed after testing to roll the door up and down. See figure below.

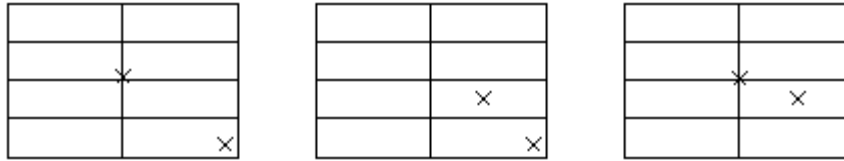


GA5: (Q70:) Where do you impact overhead garage doors that do not have support struts?

A: The impact locations for overhead garage doors without struts is the same as for shutters but rotated by 90 degrees; see question Q51.

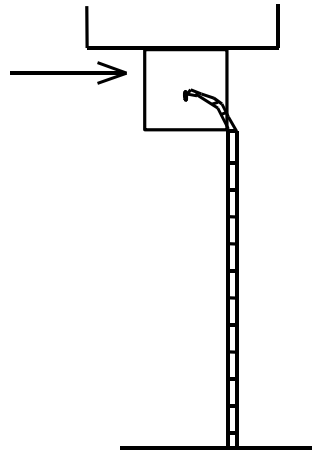
GA6: (Q71:) Where do you impact overhead garage doors that have vertical supports?

A: The impact locations for overhead garage doors with vertical struts, the impacts are as shown below.



GA7: (Q72:) Where do roll-up garage doors have to be impacted?

A: For roll-up garage doors only the center and a corner are required, but if the application is as shown below where the slats do not push up against the entire opening the roll drum must also be impacted.



GA8: (Q83:) When testing roll garage doors, what is the size of specimen that must be tested?

A: The largest specimen that your company foresees installing or wants product approval for would need to be tested. There are labs available at this time that can handle large samples such as this. Remember to contact Dade County Building Code Compliance Department for specimens that exceed 8 feet for proper guidance.

GA9: (Q87:) Do vents in a garage door have to be impacted?

A: Not if they are intended to meet the minimum requirements for ventilation of the garage.

GA10: (Q88:) If I have a garage door that I want to test that has 2' tall panel slats. If I test an 8' high door, can I get approval for a 10', 12' and 14' tall door?

A: You may get the approval for the taller doors only if the design of your door does not incorporate any vertical supporting members.

GA11: (Q89:) May I use a removable beam behind my garage door for the needed structural support if I attach a cable to from the beam to the door or track so that it is permanently attached to the door?

A: No, this will not be allowed. The bracing mechanism must be on the door, and permanently attached.

GA12: (Q95:) Does a garage door that has a panel with glazing have to be cycled 671 times or 9000 times?

- A: You may test a full garage door without the glazed panel and cycle it 671 times. You then may test a "single glazed panel" for the 9000 cycles and use it in the "whole" door system.

GA13: (Q96:)-Reserved.

GA14: (Q108:) How many variations of Garage Doors may be submitted on one application?

- A:
1. Only one design (material or pattern) is accepted per application.
 2. A. You may submit two different thickness' of the same design under one application by testing the thinner material. The approval of the thicker material will be based on the results of the thinner material tested.
B. You may submit two different spans of the same design under one application by testing the longest span. The approval of the short span will be based on the results of the longest span tested.
 3. Each set of uniform static air test (PA202), performed on a specific model, series, or type of door requires one application.
 4. If a group of doors of the same design, material and pattern are being tested, it is only necessary to impact (PA-201) and cycle (PA-203) the thinner (weakest) door with the highest pressure. The satisfactory result of these tests will qualify the group of doors of the same design, material and pattern.

GA15: (Q111:) How will the County treat ventilators installed in Garage Doors?

- A: Small ventilators less than 60 in² can be installed on garage doors without undergoing the impact test requirements. Any larger vents will have to be tested with the door.

GA16: (Q112:) What is the procedure for testing garage doors to PA202?

- A:
- a) Apply 5% test load to remove the "play" of the door. Return pressure to 0 and set all deflections dials to 0.
 - b) Bring pressure to 1/2 test load and record deflection.
 - c) Remove all loads and read deformation if any. Recovery at this point shall be 95-100%.
 - d) Bring pressure to test load and record deflection.
 - e) Remove all load and record deformation permanent set). Recovery shall be at least 80%. Repeat the above in the negative direction in the same manner. Perform this test on as many samples required. The door shall be raised to an open position after the test. The laboratory must report if the door was operable or not after the test.

GA17: (Q117:) What is the procedure for reporting and installing garage door specimens to the test chamber?

- A: *The following procedure shall be implemented June 1, 1995. This means that any Product Approval submittal received in this office after said date shall be evaluated to this procedure.*

To begin with, only those anchors and fasteners that were tested shall be approved.

For Roll-Up Doors:

Specimen 1 test to PA201 & PA203 on 2000 psi concrete column on both sides and qualify two types of anchors.

Specimen 2 test to PA201 & PA203 on A36 steel column on both sides and qualify two types of fasteners.

Specimen 3 test to PA201 & PA203 on C-90 masonry block with 2000 psi grout column on both sides and qualify two types of anchors.

For Sectional Doors:

Specimen 1 test to PA201 & PA203 on 2"x6" or larger PT#3 Southern Pine wood buck on both sides and qualify two types of anchors.

Specimen 2 test to PA201 & PA203 on C-90 masonry block with 2000 psi grout column on both sides and qualify two types of anchors.

Specimen 3 test to PA201 & PA203 on 2000 psi concrete column on both sides and qualify two types of anchors.

In both cases mentioned above, each test will qualify one structural substrate application and two types of fasteners/anchors. Other types of substrates may require additional testing.

When down sizing any of the mentioned doors, the spacing of the anchors shall never exceed that which was tested.

The requirements of PA202 can be performed in any type of substrate mentioned above and with any of the fasteners/anchors used for PA201 & PA203.

The test report shall describe the anchor/fastener type, location, embedment, spacing, type of column substrate and specification, etc. Calculations verifying the anchor/fastener used and recommended method of installing 2"x6" or larger buck to concrete/masonry block shall be submitted.

Please note that if you wish to only receive approval for one column substrate, then the three required tests for PA201 and PA203 shall be performed on *that* substrate. You may still qualify different anchors/fasteners on said column substrate.

Note that question #15 has been removed from this document and has been clarified in question #88.

GA18: (Q127:) Is there any limitation on the height of a roll-up door or sectional garage door that is tested with a given height?

- A: Starting January 1, 1996 approval of Roll-up and Sectional doors shall be limited to three (3) times the height of the door tested. This is only applicable when the tested door does not have the top or bottom ends restricted. If the tested door has locks that engage on the floor, or vertical reinforcements, this does not apply; in this case the door shall be approved for the height tested.